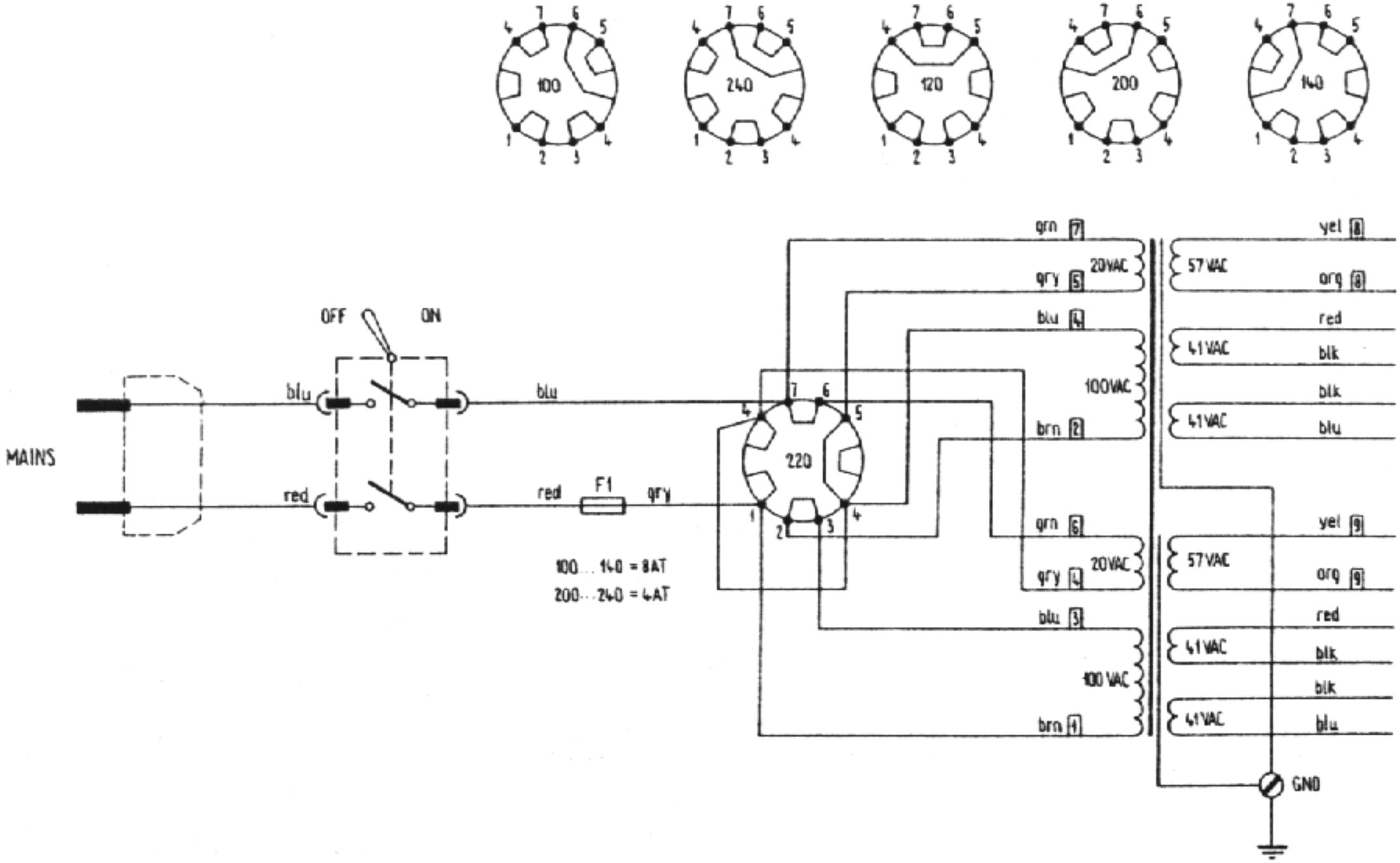
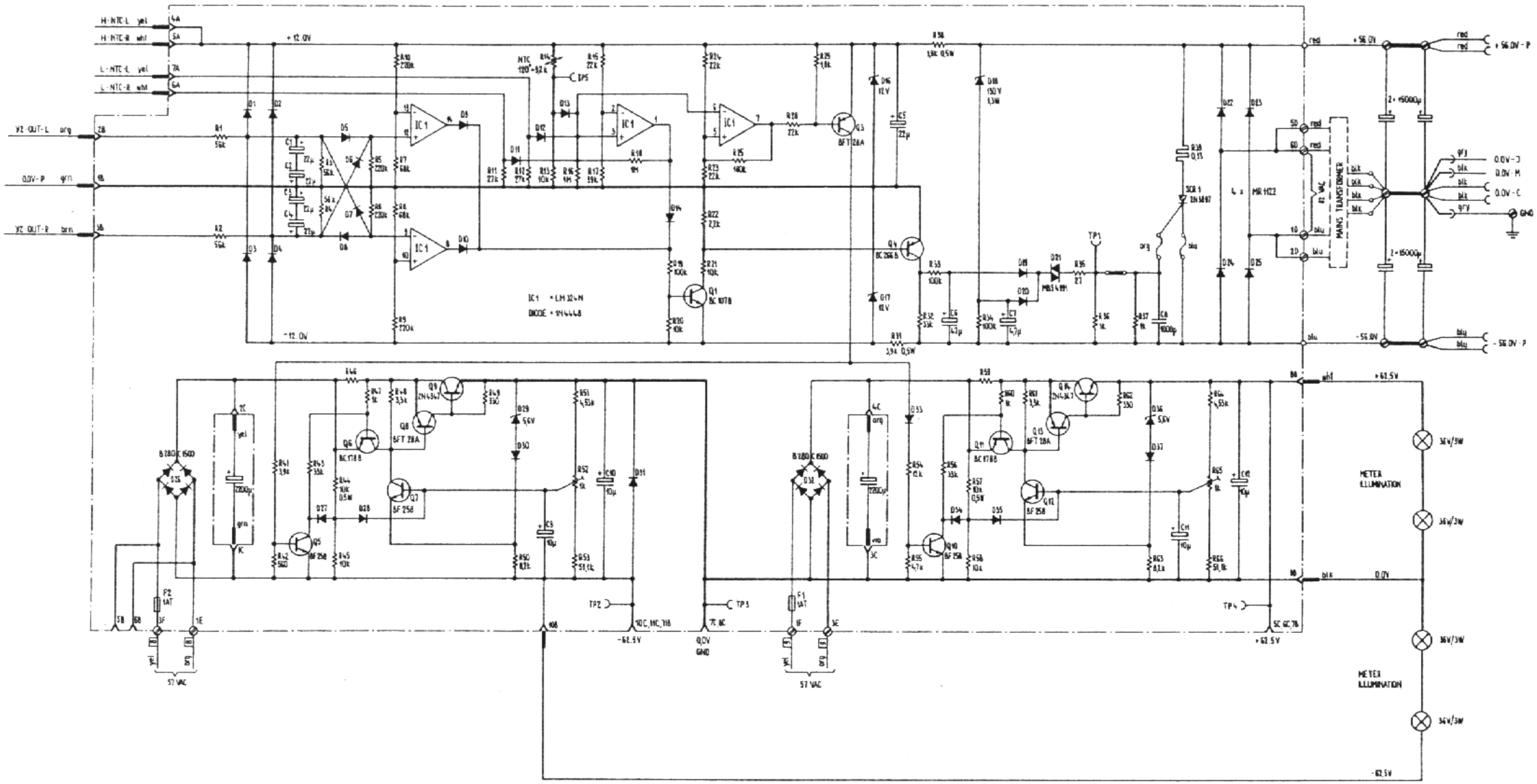
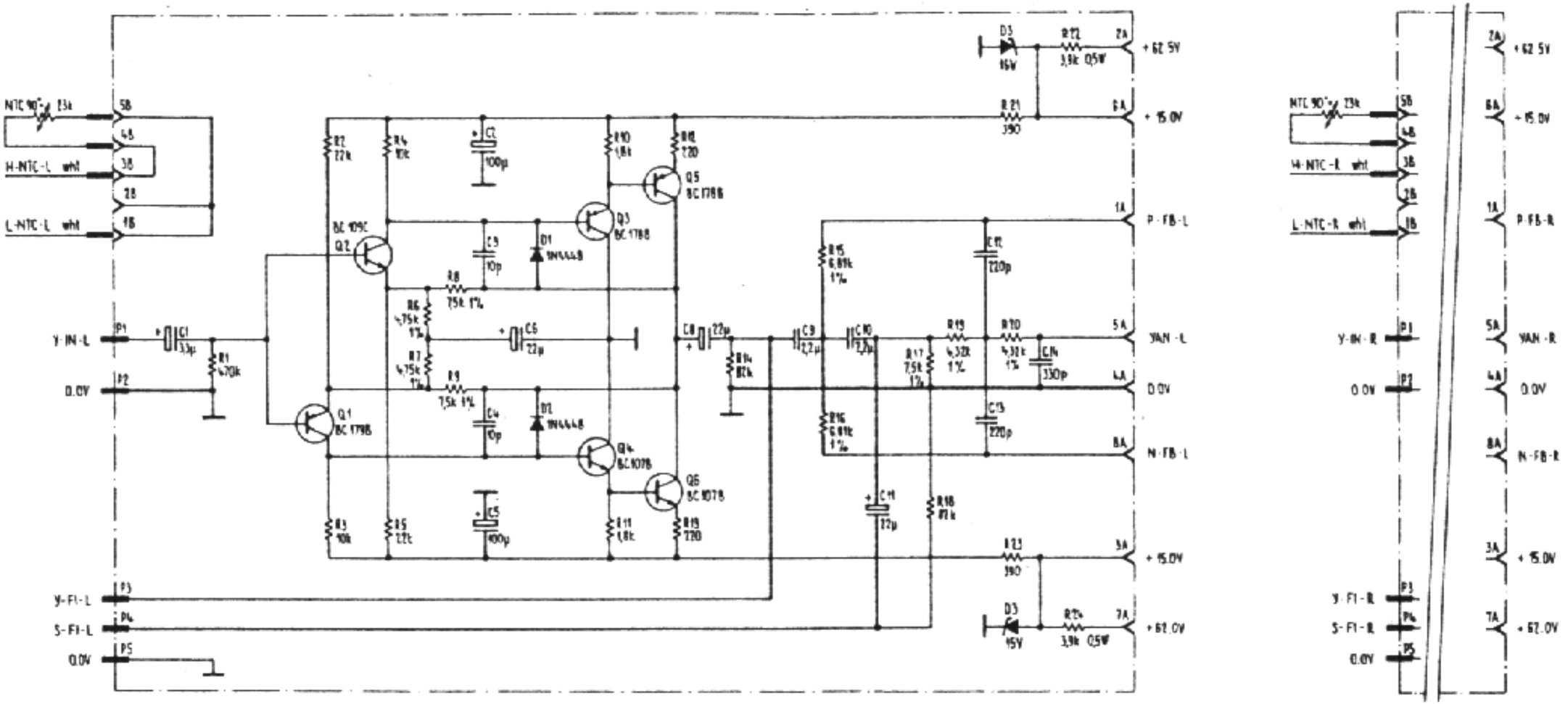
REVOX A-740

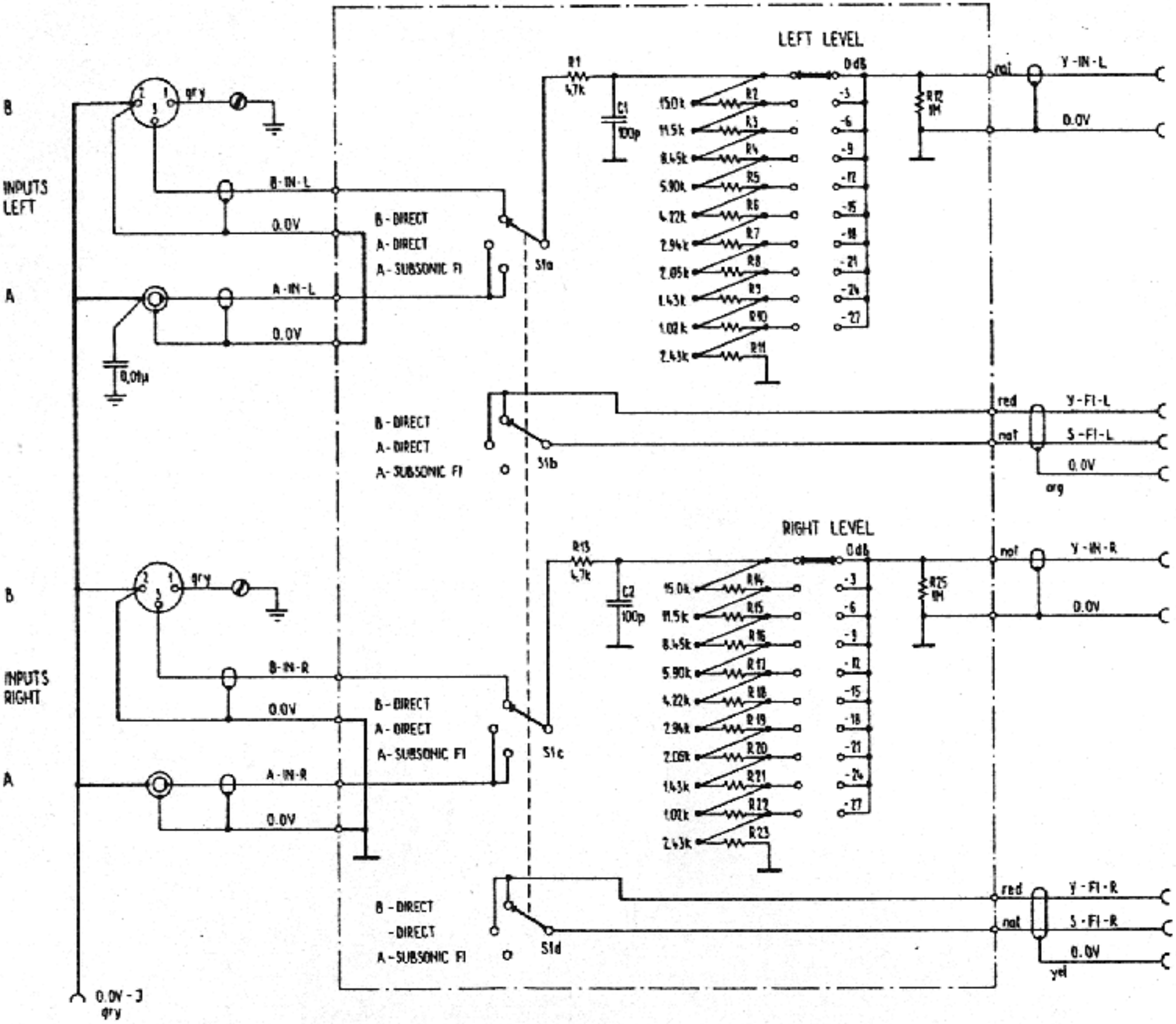
MODEL

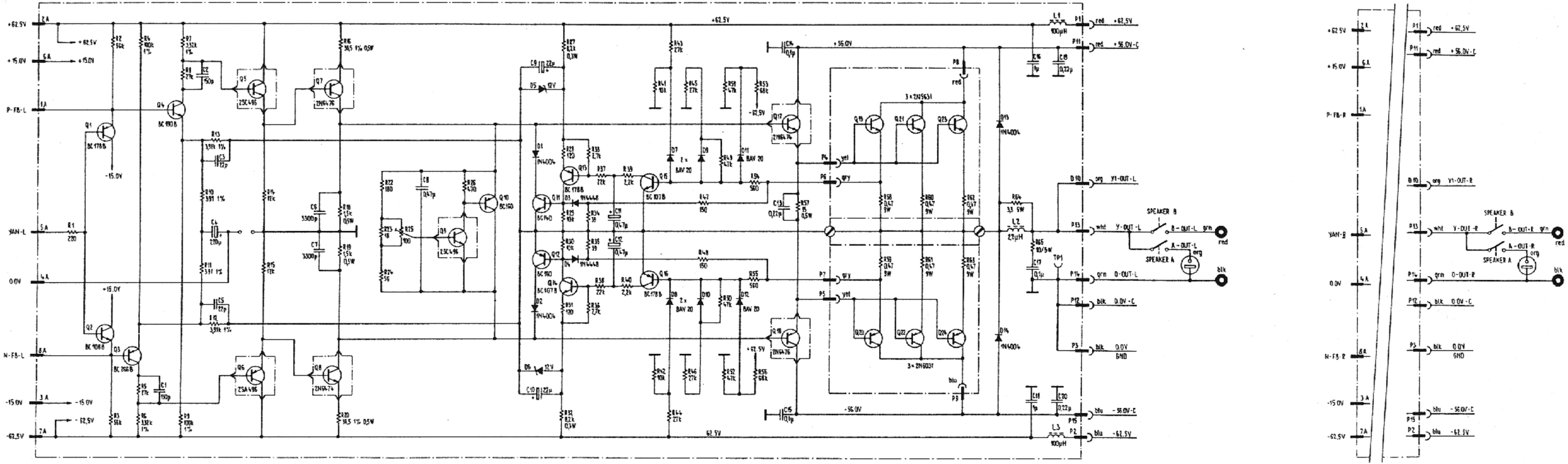
SERVICE MANUAL

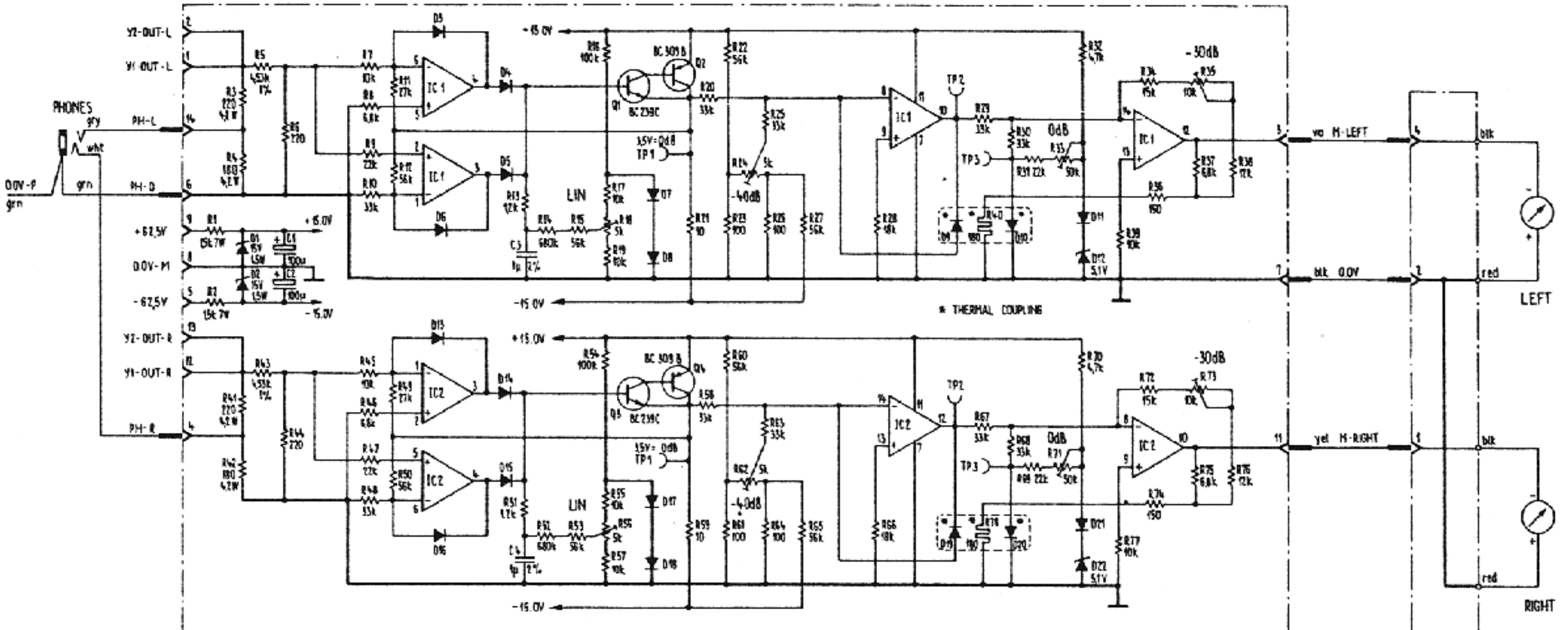

100
240
120
200
140
OFF
ON
blu
blu
MAINS
red
red
F1
qry
220
100 ... 140 = 8AT
200 ... 240 = 4AT
grn 7
qry 5
blu 4
brn 2
20VAC
100VAC
grn 6
qry 4
blu 3
brn 1
20VAC
100 VAC
57 VAC
41 VAC
41 VAC
57VAC
41VAC
41VAC
yel 8
org 8
red
blk
blk
blu
yel 9
org 9
red
blk
blk
blu
GND


H-NTC-L yel
H-NTC-R wht
L-NTC-L yel
L-NTC-R wht
+12.0V
-12.0V
+56.0V
-56.0V
+62.5V
-62.5V
0.0V-P grn
0.0V-C
0.0V-M
0.0V-D
GND
IC1 = LM 324 N
DIODE = 1N4448
MAINS TRANSFORMER
4 x MR 1122
METER ILLUMINATION
METER ILLUMINATION
57 VAC
57 VAC
0.0V


NTC 90° 23k
5B
4B
H-NTC-L wht
3B
2B
L-NTC-L wht
1B
Y-IN-L
P1
C1 3,3µ
R1 470k
0.0V
P2
R2 22k
R4 10k
C2 100µ
R10 1,8k
R12 220
Q5 BC 178B
Q3 BC 178B
BC 109C
Q2
C3 10p
D1 1N4448
R8 7,5k 1%
R6 4,75k 1%
C6 22µ
R7 4,75k 1%
R9 7,5k 1%
C4 10p
D2 1N4448
Q1 BC 178B
Q4 BC 107B
Q6 BC 107B
R3 10k
R5 22k
C5 100µ
R11 1,8k
R13 220
C8 22µ
R14 82k
C9 2,2µ
C10 2,2µ
R15 6,81k 1%
R16 6,81k 1%
C11 220p
C13 220p
R17 7,5k 1%
R19 4,32k 1%
R20 4,32k 1%
C14 330p
C11 22µ
R18 82k
D3 15V
R22 3,9k 0,5W
R21 390
R23 390
D3 15V
R24 3,9k 0,5W
y-FI-L
P3
S-FI-L
P4
0.0V
P5
2A
+ 62.5V
6A
+ 15.0V
1A
P-FB-L
5A
YAN-L
4A
0.0V
8A
N-FB-L
3A
+ 15.0V
7A
+ 62.0V
NTC 90° 23k
5B
4B
H-NTC-R wht
3B
2B
L-NTC-R wht
1B
Y-IN-R
P1
0.0V
P2
y-FI-R
P3
S-FI-R
P4
0.0V
P5
2A
+ 62.5V
6A
+ 15.0V
1A
P-FB-R
5A
YAN-R
4A
0.0V
8A
N-FB-R
3A
+ 15.0V
7A
+ 62.0V

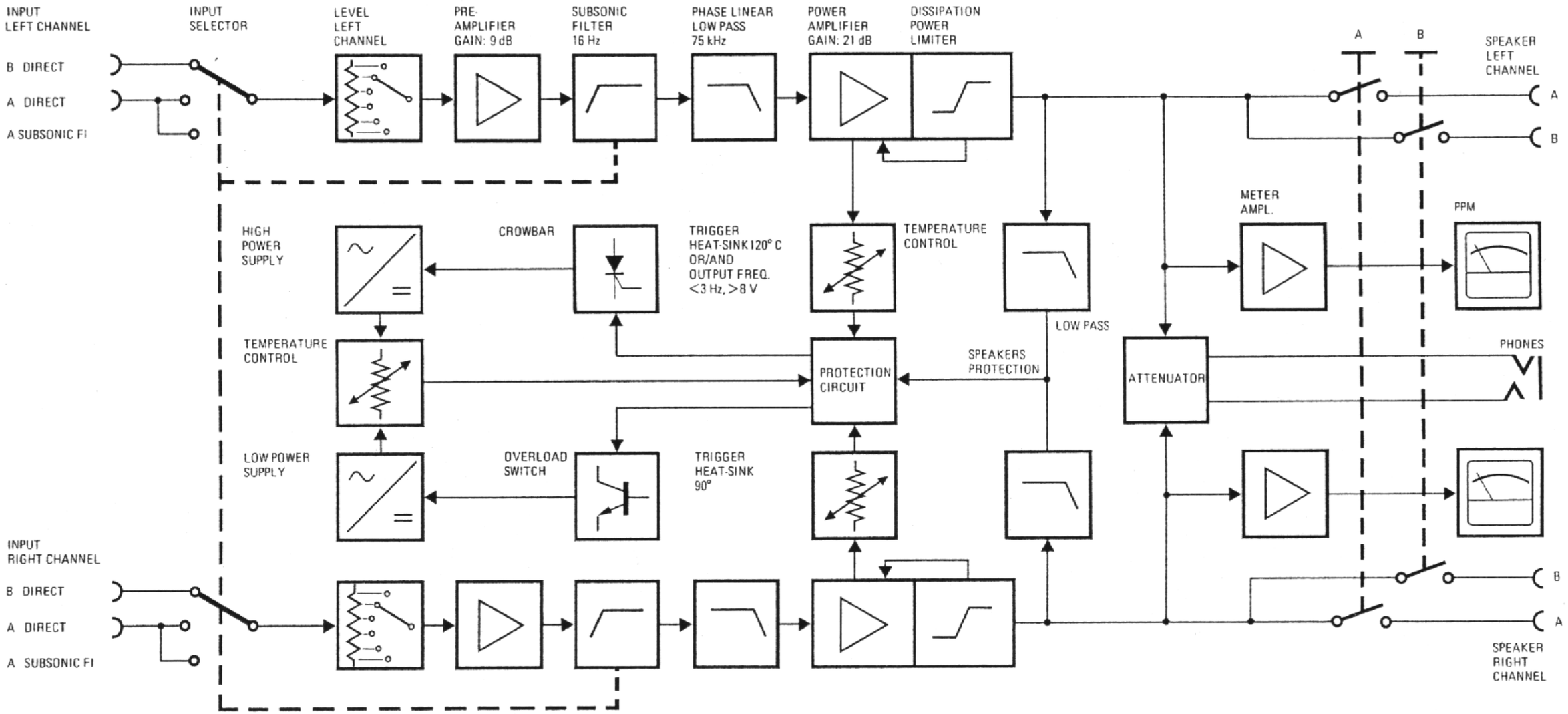

INPUTS LEFT
B
A
INPUTS RIGHT
B
A
gry
B-IN-L
A-IN-L
0.0V
0.01µ
B-DIRECT
A-DIRECT
A-SUBSONIC FI
S1a
S1b
S1c
S1d
LEFT LEVEL
RIGHT LEVEL
R1
4.7k
C1
100p
150k
11.5k
8.45k
5.90k
4.22k
2.94k
2.05k
1.43k
1.02k
2.43k
0dB
-3
-6
-9
-12
-15
-18
-21
-24
-27
R12
1M
R13
4.7k
C2
100p
15.0k
11.5k
8.45k
5.90k
4.22k
2.94k
2.05k
1.43k
1.02k
2.43k
R25
1M
red
wht
org
yel
Y-IN-L
Y-FI-L
S-FI-L
Y-IN-R
Y-FI-R
S-FI-R
0.0V-3
gry


+62.5V
+15.0V
P-FB-L
YAN-L
0.0V
N-FB-L
-15.0V
-62.5V
+56.0V
-56.0V
SPEAKER B
SPEAKER A
B-OUT-L
A-OUT-L
Y1-OUT-L
Y-OUT-L
0-OUT-L
0.0V -C
0.0V GND
-56.0V-C
-62.5V
red
grn
org
wht
blk
blu
yel
BC178B
BC108B
BC368B
BC478B
BC140
BC160
2SC496
2SA496
2N6474
2N5631
2N6031
BAV 20
1N4148
1N4004



D3...D8, D13...D18 = 1N4448
D9...D11, D19...D21 = BAW62

IC1, IC2 = RC4136


INPUT
LEFT CHANNEL
B DIRECT
A DIRECT
A SUBSONIC FI
INPUT
SELECTOR
LEVEL
LEFT
CHANNEL
PRE-
AMPLIFIER
GAIN: 9 dB
SUBSONIC
FILTER
16 Hz
PHASE LINEAR
LOW PASS
75 kHz
POWER
AMPLIFIER
GAIN: 21 dB
DISSIPATION
POWER
LIMITER
A
B
SPEAKER
LEFT
CHANNEL
A
B
METER
AMPL.
PPM
HIGH
POWER
SUPPLY
CROWBAR
TRIGGER
HEAT-SINK 120° C
OR/AND
OUTPUT FREQ.
<3 Hz, >8 V
TEMPERATURE
CONTROL
TEMPERATURE
CONTROL
LOW PASS
PHONES
PROTECTION
CIRCUIT
SPEAKERS
PROTECTION
ATTENUATOR
LOW POWER
SUPPLY
OVERLOAD
SWITCH
TRIGGER
HEAT-SINK
90°
INPUT
RIGHT CHANNEL
B DIRECT
A DIRECT
A SUBSONIC FI
B
A
SPEAKER
RIGHT
CHANNEL